BRUHAT BANGALORE MAHANAGARA PALIKE

Yelahanka Zone, Electrical Division

Name of Work:-Detailed Sub Estime for Providing Pathoway Lighting to CQAL Layput Park in Ward No 08

Budget Head

For Rs. **330000.00**

Ward No. 0 08

Sl No	SR Page & SL No	Description Of Work	Unit	qty	Rate	Amount
1	14/4 4 1	Fabricating supplying and erection of Mtrs long hot dip **Galvanized Conical pole** with BSEN 10025 grade S355JO steel plate for shaft IS 2062 for base plate with door opening arrangements including suitable boards Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom mm top mm with 3mm thick suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc (excluding foundation) as per drawing appended 3 meters - Top 75mm and bottom 105	Nos	13	5037.00	65481.00
2	16/4 7.1	Supplying and fixing of Hot dip Galvanized M S Bracket suitable for out door luminaries and mounted on Octagonal pole using necessary bolts nuts etc complete Single Arm Bracket with 1000mm Standard 40/50MM dia	Nos	13	1689.00	21957.00
3	40/6 4 4	Supplying of 1.1 KV LT UG cable XLPE or Heat resistant PVC insulated, PVC extruded Inner sheath armoured UG LT cable as per IS-1554 (Part-1) or IS-7098 Part-1, Armouring strip thickness in average +5% and resistivity 14 Ohms/Kms (Max) as per IS-3975 4 core 16 sqmm	Mtrs	310	150.00	46500.00
4	41/6.5	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required In existing trench/duct 6 sqmm to 16 sqmm	Mtrs	310	11.88	3682.80
5	41/6.6.1	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc complete (As per Civil SR KSRB I-2 P-7)In soil (ordinary)	Mtrs	250	76.00	19000.00
6	5/2.3.2	Wiring for lighting/power circuit using one of **FRLS** PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 confirming to latest amendments 1.5 sqmm	Mtrs	100	20.50	2050.00
7	5/2.3.6	10 sqmm	Mtr.	8	115.00	920.00
8	pwd sr 14-15	Providing Rcc Pole pedstal of Size 0.3x0.3x0.8 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1:4:8base concrete,1:2:4pedestal concrete and etc coplete as per the data sheet enclosed	Nos	13	1080.00	14040.00

Scanned by TapScanner

9	12.8	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation Lamp compartment comprising of anti glare clear diffuser with injection moulded polycarbonate material delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70% maximum light intensity should be between 60 degrees to 70 degrees CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08 Power Factor >0 9 with mains Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection Compatible for pole mouting with outer dia of 40mm to 50mm Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS UL approved MCPCB Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools LED Light fixture with W System Power consumption LED Efficiency>130lm/w nominal CRI >75 Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001 2008 Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source LED Streetlight 25watts	Nos	13	1840.00	23920.00
10	12 8 4	LED Streetlight 90 Watts	Nos	7	7160 00	50120.00
11	40/6 1	Supplying, fixing, wiring, earth electrode for grounding conduits, I C cutouts and other equipment's on the meter board using 40mm dia 2 90mm thick GI pipe 2 5 mtr long buried in a pit The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth The connection from the pipe to the conduit etc is to be established through GI wire of size as per ISI specification 7 3 3 of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc the pipe shall have 16 through holes of 12 mm dia	Nos	1	2999.70	2999 70
12	30/5.42 2	Fabricating supplying and mounting MS box made out SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete 16SWG	Sqcms	30000	0.35	10500.00
13	30/5 41 1	Supplying and fixing angle iron frame work fabricated out of M S angle iron and M S flat .. with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint 40x40x6mm	Nos	8	255.00	2040.00
14	26/5 13 4	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc, complete with AC-3 Rating and as per IS-13947 100 to 125Amps	Nos	1	7200.00	7200.00

Scanned by TapScanner

	27/5.17.5	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 40 Amps DP	Nos	2	1336.00	2672.00
16	14.1	Supplying and Fixing of mm dia class A GI pipe bracket up to 2 Mtrs long bent at suitable angle and fixing to this bracket 1x40/2x40 watts fluorescent tube street light fitting of all capacities to GI or CI or rail or RCC pole / wall using suitable clamps, bolts, and nuts and wiring using suitable capacity wires Using 32mm dia G.I Pipe	Nos	7	835.00	5845.00
17	19 32/9	Supplying and fixing of Twin Dial electro mechanical timer (without contactor) using necessary bolts, nuts and washers etc Group A, PWD SR 2007-08.	Nos	1	4200.00	4200.00
		Total Rs				283127.50
		Add KRIDL Charges 4%				11325.10
		Total Rs				294452.60
		Add GSt 12%				35334.31
		Mislenious				213.09
		Grand Total Rs				**330000.00**

CERTIFICATE :-

1. The place was inspected and the work is essential.
2. The provision made in the estimate are adequate and necessary and the work comes in the BBMP limit and is legitimate Charges on the BBMP funds.
3. The estimate is based on KPWD (Ele) S.R 2018-19 ~~and Approved Rates~~

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

TECHNICALLY SANCTIONED FOR Rs. 3.30.000:00
Rupees THREE LAKH THIRTY THOUSAND
ONLY
Under P/2178 WORKS SANCTIONED
BY. D.Y MAYOR
Register 39/2019.20
Subject as contained in
enclosed from BBMP/CE(YZ)AS/119/18-19
Dt. 08.01.2019
Functionally Sanctioned
BBMP/CE(E)E/YZ/TS/39/2019.20
Dated 20.03.2020 3.30.000:00

Executive Engineer

Scanned by TapScanner